

WHAT IS CLAIMED:

1. A material for a wall of a flexible pressurized container comprising at least two plies of cloth, said cloth having a weight of 150 to 450 g/m², said cloth comprising fiber having a denier generally between 180 and 280 and the fill of the individual plies at 90 degrees to each other, said fibers of said cloth selected from the group consisting of extended chain polyethylene polymer in a modified rip stop weave architecture and a thermotropic liquid (melt spun) crystalline polymer in a 2x2 basket weave architecture, said weave comprising 56 by 56 yarns/inch.
- 2 The material as set forth in Claim 1 wherein said plies are joined together by a thermalplastic polyurethane (TPUR) elastomer resin.
3. The material as set forth in claim 1 wherein said cloth has a weight of 159 to 478 g/m² and said weave comprises 58 by 58 yarns/inch.
4. The material as set forth in Claim 2 wherein said plies are joined together by a polyester terephthalate film bonded to the outer side of said material.
5. The material as set forth in Claim 1, or 2, or 3, or 4 wherein the denier is between 180 and 215.
6. A lighter than air vehicle comprising:
at least one gasbag;
a gondola attached to the bottom of said gasbag; and the material of said gasbag comprising at least two plies of cloth, said cloth comprising 56 by 56 yarns/inch, with the fiber of said cloth having a denier generally between 180 and 215 and with the fill of the

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individual plies at 90 degrees to each other, said fibers of said cloth selected from the group consisting of extended chain polyethylene polymer in a modified rip stop weave architecture and a thermotropic liquid (melt spun) crystalline polymer in a 2x2 basket weave architecture, said cloth further having a weight of 150 to 450 g/m².

7. The material as set forth in Claim 6 wherein said plies are joined together by a thermalplastic polyurethane (TPUR) elastomer.

8. The material as set forth in Claim 6 comprising a polyester terephthalate film bonded to the outer side.

9. The material as set forth in Claim 6, or 7, or 8 wherein the denier is between 180 and 215.

10. The material as set forth in Claim 9 wherein said cloth comprises 58 by 58 yarns/inch.

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